

In the claims:

Please substitute the following full listing of claims for the claims as originally filed or most recently amended.

1. (Withdrawn) A method of adjusting carrier mobility in semiconductor devices comprising the steps of  
    depositing a first stressed film on a wafer including first and second transistors to create a stress in the channels of the transistors,  
    partially removing said first stressed film to relieve said stress from a channel of one said transistor,  
    depositing a second stressed film over first and second transistors to apply a second stress to the channel of the transistor having said first stressed film removed.
2. (Withdrawn) A method as recited in claim 1 in which first transistor and second transistor are of different conductivity types.
3. (Withdrawn) A method as recited in claim 2 in which first film and second film apply opposing stresses.
4. (Withdrawn) A method as recited in claim 3 wherein the carrier mobility is regulated by applying tensile stress to said first transistor while applying compressive stress to said second transistor.
5. (Withdrawn) A method as recited in claim 4 wherein at least one stressed film is applied using plasma enhanced chemical vapor deposition (PECVD).
6. (Withdrawn) A method as recited in claim 4 wherein at least one stressed film is applied using thermal chemical vapor deposition (CVD).
7. (Withdrawn) A method as recited in claim 5 wherein at least one stressed film is applied using thermal(CVD).
8. (Withdrawn) A method as recited in claim 4 further comprising the steps of:  
    partially or fully removing first stressed film from both first and second transistors as masked by an oxide layer;  
    removing said oxide layer and depositing a shear force isolation layer

across entire CMOS pair;

applying a blocking layer to first transistor and associated portions of said layers/films;

removing layer/film portions associated with said second transistor;

removing said blocking layer from said first transistor; and

depositing said second stressed film over the first and second transistors.

9. (Withdrawn) A method as recited in claim 4 further comprising the steps of:

applying a blocking layer to said first transistor;

partially or fully removing said first stressed film from second transistor;

removing said blocking layer from said first transistor; and

applying said second stressed film over the first and second transistors.

10. (Previously Presented) A structure that adjusts carrier mobility in CMOS transistors comprising:

a substrate,

a first transistor having a gate dielectric, gate electrode, and source, drain, and gate regions, formed on said substrate,

a second transistor having a gate dielectric, gate electrode, and source, drain, and gate regions, formed on said substrate,

a first film providing tensile stress at least at the channel of said first transistor,

a second film providing compressive stress at least at the channel of said second transistor, a portion of said second film extending in the same region of said substrate as a portion of said first film, and

a shear force isolation layer separating said first film and said second film and said tensile and compressive stress therein in at least one area.

11. (Currently Amended) A structure as recited in claim 10, wherein ~~the said~~ first film and ~~said~~ second ~~films~~ film can be composed of nitride, oxide, or other material that exhibits either tensile or compressive properties.

12. (Currently Amended) A structure as recited in claim ~~11~~ 10, wherein ~~the said~~ first film and ~~said~~ second ~~stressed films~~ film are separated by said shear force isolation layer at all points of overlap.

13. (Currently Amended) A structure as recited in claim ~~12~~ 10, wherein ~~the said first stressed film; is~~ closer to the substrate than ~~the said second stressed film; and~~ does not fully surround ~~the said~~ first transistor, but rather the sides only, while the remaining surfaces of ~~the said~~ first transistor are contacted by said shear force isolation layer.

14. (Currently Amended) A structure as recited in claim 13, wherein said shear force isolation layer is the only separation between ~~the said~~ first transistor and said second film.

15. (Currently Amended) A structure as recited in claim 13, wherein said shear force isolation layer surrounds the majority of the ~~an~~ oxide liner of the ~~said~~ second transistor gate electrode except the top of the gate which engages directly with said second stressed film.

16. (Currently Amended) A structure as recited in claim ~~11~~ 10, wherein ~~the first and second stressed films~~ said first film and said second film are separated by a said shear force isolation layer at selected areas.

17. (Currently Amended) A structure as recited in claim 16, wherein the ~~said~~ first stressed film, closer to the ~~said~~ substrate than the ~~said~~ second stressed film, fully surrounds the ~~said~~ first transistor.

18. (Currently Amended) A structure as recited in claim 17, wherein said first stressed film is the only separation between the ~~said~~ first transistor and said second stressed film.

19. (Currently Amended) A structure as recited in claim 17 wherein said second stressed film surrounds the ~~said~~ oxide liner at the sides of the ~~said~~ second transistor gate electrode with the top of the gate directly engaged with said second stressed film.